8888888888 888888888 88888888	8 88	AAAAAAA AAAAAAA AAAAAAA		00000000000000000000000000000000000000	KKK KKK KKK	KKK KKK KKK	UUU UUU UUU	UUU UUU UUU	PPPPPP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PPPPP
888	888	AA AAAAAAAAAAAA	A CCC		KKK	KKK	UUU	ŬŬŬ	PPP	PPP
BBB	888	AAA AA			KKK	KKK	UUU	UUU	PPP	PPP
888	888	AAA AA			KKK	KKK	UUU	UUU	PPP	PPP
888	888								PPP	PPP
88 8					KKK	KKK	UUU	UUU		
000	BBB	AAA AA			KKK	KKK	UUU	UUU	PPP	PPP
888	888	AAA AA			KKK	KKK	UUU	UUU	PPP	PPP
BBBBBBBBB	888	AAA AA	A CCC	•	KKKKKI	KKKK	UUU	UUU	PPPPPP	PPPPPP
88888888	88 8	AAA AA	A CCC		KKKKKI	KKKK	UUU	UUU	PPPPPP	PPPPPP
88888888		AAA AA			KKKKKI		ŬŬŬ	ŬŬŬ	PPPPPP	
88B	BBB	AAAAAAAAAAAA			KKK	KKK	ŬŬŬ	ÜÜÜ	PPP	
BBB	BBB	AAAAAAAAAAAA			KKK	KKK	ŬŬŬ	ŬŬŬ	PPP	
BBB	888	AAAAAAAAAAAA			KKK	KKK	บับบั	ŬŬŬ	PPP	
888	888	AAA AA			KKK	KKK	ŬŬŬ	ŪŪŪ	PPP	
888	888	AAA AA			KKK	KKK	ŬŬŬ	ŬŬŬ	PPP	
888	888	AAA AA			KKK	KKK	ŬŬŬ	ŬŬŬ	PPP	
888888888		AAA AA		0000000000000	KKK	KKK		เบบบบบบบับบั	PPP	
BBBBBBBBBB		AAA AA		000000000000000000000000000000000000000	KKK	KKK		เบบบบบบบบบบ	PPP	
888888888		AAA AA		555555555555555555555555555555555555555	KKK	KKK		บบบบบบบบบ	PPP	

**FIL	Feel	D++C	RFA'	TEDIR
		L	nL.A	ILMIN

0000000 0000000 00 00 00 00 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR
LL LL LL LL LL LL LL LL LL LL LL LL LLLL		\$					

O MODULE CREATEDIR(%TITLE 'Create directory' IDENT = 'V04-000' 0002 0004 BEGIN 0005 0006 0007 8000 0009 1 * 10 0010 ALL RIGHTS RESERVED. 11 12 13 14 15 0011 0012 1 * 0014 1 * 0015 1 16 0016 1 * 0017 i 🛊 TRANSFERRED. 18 0018 0019 1 * 2222222222233333333333333 0020 0021 i 🛊 CORPORATION. 1 🛊 0023 0023 1 * 0024 0026 0027 0028 0029 ************* 0030 FACILITY: 0031 Backup/Restore 0032 ABSTRACT: 0034 0035 0036 0037 **ENVIRONMENT:** VAX/VMS user mode. 0038 0039 AUTHOR: M. Jack, CREATION DATE: 28-Sep-1980 40 0040 41 0041 MODIFIED BY: 42 0042 V03-006 ACG0373 44 0044 0045 467 48 49 0046 V03-005 KBT0586 0048 0049 V03-004 MLJ0112 50 51 52 53 54 55 0050 0051 0052 V03-003 ACG0313 0054 Add routine subtitles 0055 56 57 0056 V03-002 MLJ53474 0057

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This module contains the routines that create directories.

11-Nov-1983 15:46 Andrew C. Goldstein, Fix directory creation path in /INCREMENTAL case: allow directory creation over dangling entries.

Keith B. Thompson 15-Aug-1983 Remove ref. to LIBSEXTRACT_CONCEAL and change accordingly

MLJ0112 Martin L. Jack, 19-Jul-1983 16:51 fix uninitialized backup date in /INCREMENTAL case.

Andrew C. Goldstein, 12-feb-1983 16:09

Martin L. Jack, 4-Feb-1983 0:15 Track ACG0275 in LIBSCREATE_DIR.

CREATEDIR VO4-000	Create directory	J 16 15-Sep-1984 23:52:12 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:53:50 [BACKUP.SRC]CREATEDIR.B32:1
58 59 60 61 62	0058 1 ! V03-001 0059 1 ! V03-001 0060 1 ! 0061 1 ! V02-00:	MLJ0101 Martin L. Jack, 13-Nov-1982 19:24 Fix ADDRESSING_MODE(GENERAL) errors. MLJ0063 Martin L. Jack, 31-Dec-1981 11:05 Readapt from new LIB\$CREATE_DIR to handle root directories.
58 59 61 62 63 64 65 66 67 71 77 73	0058 1	Readapt from new LIB\$CREATE_DIR to handle root directories. MLJ0062
69 70 71 72 73	0069 1 ! 0070 1 ! 0071 1 ! v02-001 0072 1 ! 0073 1 !	/INCREMENTAL. MLJ0036

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CRI VO	ATEDIR	Create directory	K 16 15-Sep-1984 23:52:12 14-Sep-1984 11:53:50	VAX-11 Bliss-32 V4.0-742 [BACKUP.SRC]CREATEDIR.B32;1
:	76 77 78	0075 REQUIRE 'SRC\$:COMMON'; 1181 LIBRARY 'SYS\$LIBRARY:LIB'; 1182 1 1183 1 1184 FORWARD ROUTINE 1185 CREATE_DIR;		
:	76 77 78 79 81 83 84 88 88 89 91 92	1183 1 1184 1 FORWARD ROUTINE 1185 1 CREATE_DIR; 1186 1	! Create direct	tory file
	83 84 85	1186 1 1187 1 1188 1 EXTERNAL ROUTINE 1189 1 LIB\$CVT_OTB: 1190 1 1191 1 1192 1 EXTERNAL LITERAL 1193 1 LIB\$_INVFILSPE;	ADDRESSING_MODE(GENERAL);	
	87 88	1190 1191 1 1192 1 External Literal	! Convert octal to bina ! Completion status cod	•
	89 90	1193 1 LIB\$_INVFILSPE; 1194 1 1195 1	! Invalid file specific	ation
	9 2	1196 1 G\$DEFINE();	! Define common	n area

Page 3 (2)

CREATEDIR V04-000	<pre>Create directory CREATE_DIR - create a directory</pre>	L 16 15-Sep-1984 23:52:12 VAX-11 Bliss-32 V4.0-742 y file 14-Sep-1984 11:53:50 [BACKUP.SRC]CREATEDIR.B32;1
94 95 96 97 98 99 100 101 102	1197 1 %SBTTL 'CREATE_DIR - CI 1198 1 GLOBAL ROUTINE CREATE_I 1199 1 DEV_DIR_SPEC: 1200 1 OWNER UIC, 1201 1 PROT VALUE, 1202 1 MAX VERSIONS, 1203 1 FILE_ID: 1204 1 BAKDATE: 1205 1) =	reate a directory file' OIR (REF BBLOCK, Device and directory string Owner UIC File protection value Maximum version count File ID of lowest level directory REF VECTOR Backup date of lowest level directory
: 104 : 105	1207 1 ++ 1208 1 FUNCTIONAL DESCRIPTION 1209 1	ON:
106 107 108	1210 1 This routine co	reates directory files.
109	1212 1 FORMAL PARAMETERS:	
111 : 112 : 113 : 114 : 115 : 116 : 117	1214 1 DEV_DIR_SPEC 1215 1 1 1216 1 1 1217 1 1 1218 1 1 1219 1 1	Address of a descriptor for the device and directory specification. This string is a standard RMS file specification; it must not contain a node name, file name, file type, file version, or wild card characters; it must contain an explicit directory; it must reference a disk device. The string must be no longer than 255 characters.
118 119 120 121	1221 1 OWNER_UIC 1223 1 1224 1 1225 1	A longword passed by immediate value that specifies the owner UIC of the created directories. If zero, the owner UIC is that of the parent directory.
120 121 122 123 124 125 126	1226 1	A word passed by immediate value that specifies the file protection. If all ones, the file protection is that of the parent directory with delete access dropped for all access categories.
128 129 130	1229 1 1230 1 1231 1 MAX_VERSIONS 1232 1 1233 1 1234 1 1235 1 FILE_ID 1236 1 1237 1 1238 1 BAKDATE 1239 1	A word passed by immediate value that specifies the default maximum number of versions for files cataloged in the created directories.
132	1235 1 FILE_ID 1236 1	The address of an array of three words that receives the file ID of the lowest level directory.
131 132 133 134 135 136 137	1240 1 ! IMPLICIT INPUTS:	The address of a quadword that receives the backup date of the lowest level directory.
139 140 141 142	1241 1 OUTPUT_CHAN 1242 1 OUTPUT_CHAN QUAL COM_O_BSRDATE 1245 1 OUTPUT_CHAN OUTPUT_C	Assigned to the output volume. Qualifiers. Date of backup.
: 143	1246 1 ! IMPLICIT OUTPUTS: 1247 1 !	
145	1248 1 ! NONE	
147	1250 1 COMPLETION STATUS:	
: 149 : 150	1250 1 COMPLETION STATUS: 1251 1 1252 1 SS\$_NORMAL 1253 1	Normal successful completion; all specified directories already exist

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	EATEDIR 4-000	_	'y 'eate a directory	file 1	M 16 5-Sep-1984 23:52:12 4-Sep-1984 11:53:50	VAX-11 Bliss-32 V4.0-742 [BACKUP.SRC]CREATEDIR.B32;1
:	151 152 153	1254 1 ! 1255 1 ! 1256 1 !	SS\$_CREATED	Normal successful created	completion; one or mo	ore directories
	151 152 153 154 155 156 157 158	1256 1 1 1257 1 1 1258 1 1 1259 1 1260 1 1261 1 1262 1 1263 1 1264 1 1265 1 SIDE 1266 1 1267 1 1	LIB\$_INVFILSPE	directory or cont	n did not contain an e ained a node name, fil n, or wildcard, or dev	e name, file
	158 159 160 161	1262 1 1263 1	\$PARSE errors \$QIO errors			
:	162 163	1265 1 SIDE	EFFECTS:			
	164 165 166	1266 1 1267 1 1268 1 1269 1	Directory files	created as reques	ted.	
	167 168 169	1270 1 1271 2 BEGIN 1272 2 LOCAL				
	170 171 172 173 174 175 176 177	1268 1 ! 1269 1 ! 1270 1 1271 2 BEGIN 1272 2 LOCAL 1273 2 1274 2 1275 2 1276 2 1277 2 1278 2 1279 2 1280 2 1281 2 1282 2 1283 2 1284 2 1285 2 1286 2 1287 2	UCHAR:	BLOCKCATR\$S_UCHAR VOLATILE,	File characteristics	string area ifer ame descriptor
	179 180 181 182 183 184 185	1288 2	BAK:	BLOCKEATR\$S_UIC,B VOLATILE, VECTOR[2]	File protection (YTE) File owner UIC	
	186 187 188 189 190 191 192 193	1289 2 1290 2 1291 2 1292 2 1293 2 1294 2 1295 2 1296 2 1297 2 1298 2 1299 2 1300 2 1301 2 1302 2 1303 2 BIND 1304 2 1305 2 LABEL 1307 2 1308 2 BUILTIN	MEMBER,	VOLATILE, BLOCK[FIB\$C_LENGT VECTOR[2], BLOCKVECTOR[7,8,8 VECTOR[4,WORD],	R,BYTE] File header H,BYTE], ! FIB Descriptor for FIB YTE], ! Attribute desc I/O status block Binary group number Binary member number	
	194 195 196 197 198	1297 2 1298 2 1299 2 1300 2 1301 2 1302 2 1303 2 BIND	DIR_LENGTH, DIR_ADDRESS, PREV_ADDRESS, REALDIR_ADDRESS, STATUS_2, STATUS_3, FINAL_STATUS;	,	Length of residual di Address of residual d Address of previous d Temporary pointer Status return Status return Status return	irectory string
	199 200 201 202 203 204 205	1304 2 1305 2 1306 2 LABEL	DIR_TYP_VER = UF	PLIT BYTE ('.DIR;1	'); File type and version	string
	204 205	1307 2 1308 2 BUILTIN	PROCESS;	!	Block exited when pro	cessing complete
	206 207	1309 2 1310 2	LOCC, ROT:	!	LOCC instruction Rotate longword	

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Page

(3)

DIR_LENGTH = .NAM[NAM\$B_DIR] - 2; DIR_ADDRESS = .NAM[NAM\$[_DIR] + 1; ! Address without bracket ! If there is a root directory locate the real directory and squish them together Ž İF .N 2 THEN IF .NAM [NAM\$V_ROOT_DIR] BEGIN REGISTER RO = 0, R1 = 1;LOCAL TERMINATOR: BYTE: TERMINATOR = ..NAM [NAM\$L_DIR] + 2; ! Close = Open+2 IF NOT LOCC(TERMINATOR, DIR_LENGTH, .DIR_ADDRESS; RO, R1) THEN RETURN LIBS_INVFILSPE; ! No Root Found REALDIR_ADDRESS = .R1; found the terminator of the root directory, the real directory will be 2 past it, i.e. '[ROOT.][DIR]" REALDIR_ADDRESS-

Move what is left over 2 in order to get rid of the "][" to get: "[ROOT.DIR]"

REALDIR_ADDRESS-^

1340 1341

1346

1348

1349 1350

1351

1356

1357

1358 1359

1360 1361

1366 1367

VAX-11 Bliss-32 V4.0-742 [BACKUP.SRC]CREATEDIR.832;1

```
CREATEDIR
V04-000
      265
266
267
268
      269
271
271
273
275
276
278
279
      301
      302
303
      304
      305
      306
307
308
309
      310
      311
      312
313
      314
      315
      316
317
      318
319
320
321
```

```
CH$MOVE( .RO, .REALDIR_ADDPESS+2, .REALDIR_ADDRESS );
              ! Adjust the direcory length
              DIR_LENGTH = .DIR_LENGTH - 2
1374
1375
1377
1377
1378
1381
        ELSE END
               ! If no root then the real directory is the uic directory
              REALDIR_ADDRESS = .DIR_ADDRESS;
1382
1383
1384
1385
            If the directory is in UIC format, get the octal conversion
          IF .NAM [ NAMSV_GRP_MBR ]
          THEN
              BEGIN
               ! Convert the group part
1389
1390
               IF NOT LIB$CVT_OTB( 3, .REALDIR_ADDRESS, GROUP)
1391
               THEN
                   RETURN LIBS_INVFILSPE;
                                                                     ! Invalid group number
1394
               ! Convert the member part
1395
1396
               IF NOT LIB$CVT_OTB( 3, .REALDIR_ADDRESS + 3, MEMBER)
1397
                   RETURN LIBS_INVFILSPE
1398
                                                                     ! Invalid member number
1399
1400
              END:
1401
1402
          Set up the FIB to look up the MFD.
1404
1405
         CH$F1LL(0, FIB$C_LENGTH, FIB);
FIB[FIB$L_ACCTL] = FIB$M_WRITE OR FIB$M_NOREAD OR FIB$M_NOWRITE;
FIB[FIB$W_NMCTL] = FIB$M_SUPERSEDE;
FIB[FIB$W_FID_NUM] = FID$C_MFD;
FIB[FIB$W_FID_SEQ] = FID$C_MFD;
1407
1408
1409
1410
1411
1412
          Set up the FIB descriptor.
1414
1415
1416
         fIB_DESC[0] = fIB$C_LENGTH;
fIB_DESC[1] = fIB;
1417
1418
1419
1420
1421
1422
1423
1424
          Set up the name descriptor. The length is filled in as need be.
          NAME_DESC[DSC$A_POINTER] = NAME_BUFFER;
```

```
CREATEDIR
VO4-000
                                   1427
1427
1428
1433
1433
1433
1433
1433
1438
      1439
                                   1440
                                   1441
                                   1442
                                   1444
                                   1445
                                   1446
                                   1447
                                   1448
                                  1449
1450
1451
1452
1453
1454
1455
1456
1457
1458
                                   1460
                                   1461
                                   1462
       361
                                   1464
      362
363
                                    1465
                                    1466
       364
                                    1467
       365
                                    1468
                                   1469
1470
       366
       367
                                   1471
1472
1473
1474
1475
       368
      369
370
371
      372
373
374
375
376
377
                                   1476
1477
1478
1479
                                   1480
1481
```

```
Beginning of block that is exited when processing is complete. FINAL_STATUS
! contains the status to be returned to caller.
PROCESS: BEGIN
! Loop to look up directories.
PREV_ADDRESS = 0; WHILE 1 DO
     BEGIN
     ! Copy the file ID to FIB$W_DID so that the next lookup is done in that
       directory.
     FIB[FIB$W_DID_NUM] = .FIB[FIB$W_FID_NUM];
FIB[FIB$W_DID_SEQ] = .FIB[FIB$W_FID_SEQ];
FIB[FIB$W_DID_RVN] = .FIB[FIB$W_FID_RVN];
     ! Locate the next directory name.
     BEGIN! block to use output registers
     REGISTER
          RO = 0
          R1 = 1:
     LOCAL
          NAME_LENGTH,
NAME_ADDRESS;
    NAME_ADDRESS = .DIR_ADDRESS; ! Save s LOCC(%REF(%C'.'), DIR_LENGTH, .DIR_ADDRESS; RO, R1); NAME_LENGTH = .DIR_LENGTH - .R0; ! Length DIR_ADDRESS = .R1 + 1; ! Prune
                                                              ! Save starting point
                                                              ! Length preceding dot or end
                                                              ! Prune to string following dot
     RO = .RO - 1;
     DIR_LENGTH = .RO;
     ! Construct the directory name concatenated with '.DIR;1' in the name
      ! buffer, and a descriptor for this name in the name descriptor.
     NAME_DESCEDSC$W_LENGTH] = .NAME_LENGTH + 6;
(H$MOVE(6, DIR_TYP_VER, CH$MOVE(.NAME_LENGTH, .NAME_ADDRESS, NAME_BUFFER));
     END; ! block to use output registers
     ! Look up the directory at the current level. If the directory
       does not exist, exit the loop to begin creating directories.
```

(3)

Set up the attribute list. Because of dependencies later in the routine, ! the file header attribute must be last, preceded by the owner UIC attribute.

ATR[O, ATR\$W_TYPE] = ATR\$C_RECATTR; ATR[O, ATR\$W_SIZE] = ATR\$S_RECATTR; ! Record attributes 3 ATR[O, ATR\$L_ADDR] = RECATTR;

1532

1533

1534 1535

1536

1537

```
15-Sep-1984 23:52:12
14-Sep-1984 11:53:50
CREATEDIR
                          Create directory
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
V04-000
                          CREATE_DIR - créate a directory file
                                                                                                                                                  [BACKUP.SRC]CREATEDIR.B32:1
                                   3 ATR[1, ATR$W_TYPE] = ATR$C_UCHAR;
3 ATR[1, ATR$W_SIZE] = ATR$S_UCHAR;
3 ATR[1, ATR$W_SIZE] = ATR$C_FPRO;
3 ATR[2, ATR$W_TYPE] = ATR$C_FPRO;
3 ATR[2, ATR$W_SIZE] = ATR$C_BAKDATE;
3 ATR[3, ATR$W_TYPE] = ATR$C_BAKDATE;
3 ATR[3, ATR$W_SIZE] = ATR$S_BAKDATE;
4 ATR$J_ADDR] = BAK;
5 ATR[4, ATR$W_TYPE] = ATR$C_UIC;
6 ATR[4, ATR$W_TYPE] = ATR$C_UIC;
7 ATR[4, ATR$W_SIZE] = ATR$S_UIC;
8 ATR[4, ATR$W_SIZE] = ATR$C_HEADER;
9 ATR[5, ATR$W_SIZE] = ATR$C_HEADER;
10 ATR[6, 0,0,3Z,0] = 0;
11 ATR[6, 0,0,3Z,0] = 0;
12 ATR[6, 0,0,3Z,0] = 0;
                          ! File characteristics
    438
    439
                                                                                                          ! File protection
    441
    442
                                                                                                          ! File backup date
    444
    445
                                                                                                          ! File owner UIC
    446
    447
    448
                                                                                                          ! file header
    449
    450
451
453
454
455
                                                                                                          ! End of list
                                          Back out to the previous directory level if the last lookup failed,
                                          to do the read attributes on the last directory file.
    456
                          15.0
1561
1562
1563
    457
    458
                                       IF NOT .FINAL_STATUS
    459
                                       THEN
    460
                                              FIBCFIBSW_FID_NUM] = .FIBCFIBSW_DID_NUM];
FIBCFIBSW_FID_SEQ] = .FIBCFIBSW_DID_SEQ];
FIBCFIBSW_FID_RVN] = .FIBCFIBSW_DID_RVN];
                          1564
1565
    461
    462
                          1566
1567
1568
    463
    464
                                       FIB[FIBSW_DID_NUM] = 0;
FIB[FIBSW_DID_SEQ] = 0;
    465
                          1569
    466
    467
                          1570
                                       FIB[FIB$W_DID_RVN] = 0;
                      468
    469
    470
                                          Read the attributes of the last directory file found so that they
    471
                                           may be propagated to the directories created. If this fails with a
    472
                                           NOSUCHFILE error, back out one level in case we had a dangling directory
                                          entry.
    474
    476
477
                                       WHILE 1 DO
                                              BEGIN
    478
479
                                              STATUS_3 = $010W(
                                                     FUNC=10$ ACCESS,
CHAN=.OUTPUT_CHAN,
    480
    481
482
483
                                                     IOSB=IOSB
                                                     P1=FIB_DESC,
                                              P5=ATR);

IF .STATUS_3 THEN STATUS_3 = .10SB[0];

IF .STATUS_3
THEN EXITLOOP
    484 485
    486
487
    488
                                               ! If we got a NOSUCHFILE error and a previous level exists,
    489
                                                 attempt to back up.
    491
                          1594
                                               ELSE IF .STATUS_3 EQL SS$_NOSUCHFILE AND .PREV_ADDRESS NEQ O
    492
                          1595
```

Page

(3)

```
G 1
15-Sep-1984 23:52:12
14-Sep-1984 11:53:50
CREATEDIR
                      Create directory
                                                                                                                       VAX-11 Bliss-32 V4.0-742
V04-000
                      CREATE_DIR - create a directory file
                                                                                                                       [BACKUP.SRC]CREATEDIR.B32:1
                                          BEGIN

FINAL STATUS = .STATUS 3;

FIB[FIB$W_FID_NUM] = .FILE_ID[FID$W_NUM];

FIB[FIB$W_FID_SEQ] = .FILE_ID[FID$W_SEQ];

FIB[FIB$W_FID_RVN] = .FILE_ID[FID$W_RVN];

DIR_LENGTH = .DIR_LENGTH - .PREV_ADDRESS + .DIR_ADDRESS;

DIR_ADDRESS = .PREV_ADDRESS;
   494
                      1597
   495
                      1598
   496
                      1599
   497
                      1600
   498
                      1601
                     1602
    499
    500
                                           PREV_ADDRESS = 0;
    501
502
503
                      1604
                      1605
                     1606
                                            ! Locate the next directory name.
    504
505
506
507
                      1607
                      1608
                      1609
                                           BEGIN! block to use output registers REGISTER
                      1610
    508
                      1611
                                                R0 = 0
                     1612
1613
    509
                                                R1 = 1;
    510
                                           LOCAL
    511
                                                NAME_LENGTH,
NAME_ADDRESS;
                      1614
   512
513
                      1615
                     1616
1617
                                           NAME_ADDRESS = .DIR_ADDRESS; ! Save start LOCC(%REF(%C'.'), DIR_LENGTH, .DIR_ADDRESS; RO, R1); NAME_LENGTH = .DIR_LENGTH - .R0; ! Let
   514
                                                                                                  ! Save starting point
    515
                      1618
    516
                      1619
                                                                                                            ! Length preceding dot or end
                                           DIR ADDRESS = .R1 + 1;
R0 = .R0 - 1;
    517
                      1620
                                                                                                 ! Prune to string following dot
                     518
   519
520
                                           DIR_LENGTH = .RG;
   ! Construct the directory name concatenated with '.DIR;1' in the name
                                             buffer, and a descriptor for this name in the name descriptor.
                                           NAME_DESC[DSC$W_LENGTH] = .NAME_LENGTH + 6;
                                           CHSMOVE(6, DIR TYP VER, CHSMOVE (.NAME_LENGTH, .NAME_ADDRESS, NAME_BUFFER));
                                           END; ! block to use output registers
                                        Otherwise we can't back out. Report the error.
                                      ELSE
                                           BEGIN
                                           FINAL_STATUS = .STATUS_3;
                                           LEAVE PROCESS;
                     1640
1641
1642
1643
                                           END:
    538
                                      END:
    539
    540
    541
                      1644
                             3! Exit now in the /INCREMENTAL restore case where all directories exist.
   542
                     1645
    543
                     1646
1647
    544
                                IF .FINAL STATUS THEN LEAVE PROCESS;
    545
                      1648
    546
                      1649
                             3 !+3 ! Delete the file header attribute3 ! valid (or necessary) for creates.
    547
                      1650
                                   Delete the file header attribute from the attribute list, since it is not
                      1651
```

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```
15-Sep-1984 23:52:12
14-Sep-1984 11:53:50
CREATEDIR
                     Create directory
                                                                                                                    VAX-11 Bliss-32 V4.0-742
                     CREATE_DIR - créate a directory file
V04-000
                                                                                                                     [BACKUP.SRC]CREATEDIR.B32:1
                     1653
1654
1655
   3 ATR[5, 0,0,32,0] = 0;

3 BAK[0] = BAK[1] = 0;

4 If (.QUAL[QUAL_RECO] OR .QUAL[QUAL_INCR])

3 AND .HEADER[FHZ$B_STRUCLEV] EQL 2
                     1656
                     1657
                                                                                               ! If /RECORD or /INCREMENTAL
                     1658
1659
1660
                             3 AND .
3 THEN
                                     BEGIN
BAK[0] = .COM_O_BSRDATE[0];
BAK[1] = .COM_O_BSRDATE[1];
                     1661
                     1662
1663
1664
                                     END:
                     1665 3
1666 3
1667 3
                               ! Copy the file ID to FIB$W_DID to create the directory.
                     1668
                     1668 3
1669 3 FIB[FIB$W_DID_NUM] = .FIB[FIB$W_FID_NUM];
1670 3 FIB[FIB$W_DID_SEQ] = .FIB[FIB$W_FID_SEQ];
1671 3 FIB[FIB$W_DID_RVN] = .FIB[FIB$W_FID_RVN];
                     1671
1672
1673
                     1674
1675
                                Establish the allocation of the created directories. A Structure Level 1 directory is allocated zero blocks; a Structure Level 2 directory is
                     1675
                                  allocated one block. (This block is later initialized.) In both cases,
                     1677
                                  the file is marked contiguous.
                     1678
1679
                            1680
                     1681
                     1682
1683
1684
                     1685
                                  Set up the end of file pointer. It points to the highest allocated block
                     1686
1687
1688
                                  plus one (with a first free byte of zero). Note that EFBLK is stored in
                                  inverted format.
                     1689
                     1690
                               RECATTR[FAT$L_EFBLK] = ROT(.FIB[FIB$L_EXSZ] + 1, 16);
                     1691
1692
1693
                                ! Establish the owner UIC of the created directories.
                     1694
                     1695
                     1696
1697
                                IF .OWNER_UIC NEG O
                     1698
1699
1700
                                     UIC = .OWNER_UIC;
    596
   597
598
                     1700
1701
1702
1703
1704
1705
1706
1707
1708
                             3 ! Establish the file protection of the created directories.
    599
   600
   601
                             3 FPRO = .FPRO OR %x'8888';
   602
                                IF .PROT_VALUE<0,16> NEQ %X'FFFF'
   603
   604
                                     FPRO = .PROT_VALUE<0.16>;
    605
```

3 !+

1709

606

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```
15-Sep-1984 23:52:12
14-Sep-1984 11:53:50
CREATEDIR
                      Create directory
                                                                                                                        VAX-11 Bliss-32 V4.0-742
V04-000
                      CREATE_DIR - créate a directory file
                                                                                                                        [BACKUP.SRC]CREATEDIR.B32;1
                             3 ! Establish the default version limit of the created directories.
   607
   608
                      1711
                     1712
   609
   610
                                RECATTR[fAT$w_VERSIONS] = .MAX_VERSIONS;
                     1714
1715
   611
   612
                     1716
1717
                                ! Loop to create directories.
   614
   615
                     1718
                  1719
1720
1721
1723
1724
1725
1726
1727
1728
1727
1738
1733
1734
1735
1736
1737
1738
1739
1740
   616
                                WHILE 1 DO
   617
                                      BEGIN
   618
   619
   620
621
623
623
624
625
                                        Create and access the file.
                                      FINAL_STATUS = $QIOW(
FUNC=10$_CREATE OR 10$M_CREATE OR 10$M_ACCESS,
                                            CHAN=.OUTPUT_CHAN,
   626
                                            IOSB=IOSB.
                                           P1=FIB_DESC,
P2=NAME_DESC,
   628
                                           P5=ATR)
   629
   630
                                      IF .FINAL_STATUS THEN FINAL_STATUS = .10SB[0];
   631
632
633
                                      IF NOT .FINAL_STATUS THEN LEAVE PROCESS;
   634
635
                                        If the directory is Structure Level 2, write the first block of the
                                      ! file.
   636
   637
                     1741
1742
1743
                                      IF .HEADER[FH2$B_STRUCLEV] EQL 2
   638
   639
                                      THEN
   640
                                           BEGIN
                     1744
1745
   641
   642 643
                                                 BLOCK_BUFFER:
                                                                            VECTOR[256,WORD];
                                                                                                             ! Block buffer
                     1746
                                           BLOCK_BUFFER[0] = -1;
CH$FIEL(0, 510, BLOCK_BUFFER[1]);
FINAL_STATUS = $QIOW(
   644
                     1747
                                                                                                               End of block marker
   645
                     1748
                                                                                                             ! Fill rest of block
                  P 1749
   646
                                                 FONC=10$ WRITEVBLK, CHAN=.OUTPUT_CHAN,
   647
                  P 1750
                  P 1751
P 1752
P 1753
P 1754
1755
1756
1757
1758
1759
1760
1761
1762
1763
P 1764
P 1765
P 1766
   648
   649
                                                 10SB=10SB,
   650
                                                 P1=BLOCK_BUFFER,
   651
652
653
654
                                           P2=512,
P3=1);
IF .FINAL_STATUS THEN FINAL_STATUS = .IOSB[0];
                                            IF NOT .FINAL_STATUS THEN LEAVE PROCESS;
   655
                                           END:
   656
657
   658
659
                                        Deaccess the file.
   660
   661
                                      FINAL_STATUS = $QIOW(
                                            FONC=10$_DEACCESS,
   665
   663
                                           CHAN=.OUTPUT_CHAN,
```

Page

(3)

```
CREATEDIR
                   Create directory
CREATE_DIR - create a directory file
                                                                                15-Sep-1984 23:52:12
14-Sep-1984 11:53:50
                                                                                                               VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                               [BACKUP.SRC]CREATEDIR.B32:1
                                        IOSB=10SB);
   664
                   1768 4
1769 4
                                   IF .FINAL_STATUS THEN FINAL_STATUS = .IOSB[0]; IF NOT .FINAL_STATUS THEN LEAVE PROCESS;
   665
                   1769
   666
   667
                   668
                                   ! If no more directory levels were specified, they have all been created.
   669
   670
   671
   672
673
                                   IF .DIR_LENGTH LEQ 0
                                   THEN
   674
                                        BEGIN
                                        FINAL_STATUS = SS$_CREATED;
                                        LEAVE PROCESS.
   676
   677
                                        END:
   678
   679
   680
                                     Locate the next directory name.
   681
   682
   683
                                   BEGIN! block to use output registers
   684
                                   REGISTER
   685
                                        RO = 0
                                        R1 = 1:
   686
   687
                                   LOCAL
   688
                                        NAME_LENGTH,
   689
                                        NAME_ADDRESS;
                           5 5 5
   690
                                  NAME ADDRESS = .DIR ADDRESS;
LOCC(%REF(%C'.'), DIR LENGTH, .DIR ADDRESS; RO, R1);
NAME LENGTH = .DIR LENGTH - .R0;
DIR ADDRESS = R1 + 1;
R0 = .R0 - 1;
DIR ENGTH : DO
   691
                                                                                           ! Save starting point
   692
                   1796
1797
   693
                           555555555555
                                                                                            Length preceding dot or end
                                                                                           Prune to string following dot
   694
                   1798
   695
   696
                   1799
                                   DIR_LENGTH = .RO:
   697
                   1800
                   1801
1802
1803
   698
   699
                                     Construct the directory name concatenated with '.DIR;1' in the name
   700
                                     buffer, and a descriptor for this name in the name descriptor.
                   1804
1805
1806
1807
   701
   702
                                   NAME_DESC[DSC$W_LENGTH] = .NAME_LENGTH + 6;
CH$MOVE(6, DIR_TYP_VER, CH$MOVE(.NAME_LENGTH, .NAME_ADDRESS, NAME_BUFFER));
   703
   704
   705
                    1808
                                   END; ! block to use output registers
   706
                    1809
   707
                    1810
   708
                    1811
                                     Copy the file ID of the created directory to FIB$W_DID so that the next
                    1812
   709
                                     directory is cataloged in the directory just created.
   710
   711
                    1814
   712
                    1815
1816
                                   FIB[FIB$W_DID_NUM] = .FIB[FIB$W_FID_NUM];
FIB[FIB$W_DID_SEQ] = .FIB[FIB$W_FID_SEQ];
   714
                    1817
                                   fIB[fIB$w_DID_RVN] = .fIB[fIB$w_fID_RVN];
   715
                    1818
                   1819
1820
   716
   717
   718
                    1821
                                End of block that is exited when processing is complete. FINAL_STATUS
                    1822
   719
                                contains the status that is to be returned to caller.
```

Page

```
15-Sep-1984 23:52:12
14-Sep-1984 11:53:50
                                                                                                   VAX-11 Bliss-32 V4.0-742 [BACKUP.SRC]CREATEDIR.B32;1
                                                                                                                                                        Page 15 (3)
2
2 file_iD[fiD$w_NUM] = .fiB[fiB$w_fiD_NUM];
2 file_iD[fiD$w_SEQ] = .fiB[fiB$w_fiD_SEQ];
2 file_iD[fiD$w_RVN] = .fiB[fiB$w_fiD_RVN];
2 BAKDATE[0] = .BAK[0];
2 BAKDATE[1] = .BAK[1];
2 RETURN .final_status;
1 END;
                                                                              .TITLE CREATEDIR Create directory
                                                                              .IDENT \V04-000\
                                                                              .PSECT COMMON, NOEXE, OVR, 2
                                                         00000 GLOBAL_BASE:
                                                                               .BLKB
                                                         00000 FREE_LIST:
                                                         00008 INPUT_WAIT:
                                                                               .BLKB
                                                         00010 REREAD_WAIT:
                                                                               .BLKB
                                                         00018 OUTPUT_WAIT:
                                                                              .BLKB
                                                         00020 JPI_UIC:.BLKB
00024 JPI_USERNAME:
                                                                                          12
                                                                              .BLKB
                                                         00030 JPI_DATE:
                                                         00038 JPI_NODE_DESC:
                                                         00040 JPI_CURPRIV:
                                                                               BLKB
                                                         00048 SYI_VERSION:
                                                         0004C SYI SID: BLKB
00050 RWSV_HOLD_LIST:
                                                                               BLKB
                                                         00058 RWSV_CRC16:
                                                          00098 RWSV_AUTODIN:
                                                                               BLKB
                                                          000D8 RWSV_FILESET_ID:
                                                                               BLKB
                                                         000E0 RWSV_VOLUME_ID:
                                                         000EC RWSV_VOL_NUMBER:
                                                         000EE RWSV_SEG_NUMBER:
```

CREATEDIR

V04-000

Create directory

1828 1829 1830

CREATE DIR - create a directory file

END: ! of block PROCESS

Return the status.

```
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```

```
000 0 RWSV_FILE_NUMBER: .BLKB 4
000F4 RWSV_SAVE_QUAL:
               BLKB
000F8 RWSV_SAVE_FAB:
               BLKB
OOOFC RWSV_CHAN:
00100 RWSV_XOR_BCB:
               BLKB
00104 RWSV_IN_SEQ:
               .BLKB
00108 RWSV_IN_SEQ_0:
               BLRB
0010C RWSV_IN_XOR_SEQ:
               .BLKB
00110 RWSV_IN_XOR_RFA:
               .BLRB
00116 RWSV_LOOKAHEAD:
00117 RWSV_XORSIZE:
00118 RWSV_IN_GROUP_SIZE:
               .BLKB
0011C RWSV_IN_ERRORS:
0011E RWSV_IN_XORUSE:
00120 RWSV_IN_ORGERR:
00128 RWSV_IN_VBN:
               .BLKB
0012C RWSV_IN_VBN_0:
               .BLKB
00130 RWSV_ALLOC:
00134 RWSV_EOF:
00138 RWSV_OUT_SEQ:
               BLKB
0013C RWSV_OUT_VBN:
               BLKB
00140 RWSV_OUT_BLOCK_COUNT:
               BLKB
00144 RWSV_OUT_ERRORS:
              BLKB
00146 RWSV_SEQ_ERRORS:
               BLKB
00148 RWSV_OUT_GROUP_COUNT:
               BLKB
00149 RWSV_PADDING:
               .BLKB
0014C QUAL:
                      112
               .BLKB
001BC COM_SSNAME:
              .BLKB
001C4 COM_VALID_TYPES:
```

```
001C6 COM_FLAGS:
001C8 COM_PADDING:
              .BLKB
00109 COM_BUFF_COUNT:
               BLKB
OO1CA COM_I_SETCOUNT:
               BLKB
001CB COM_O_SETCOUNT:
               BLKB 1
001CC COM_I_STRUCNAME:
               .BLKB
00108 COM_O_STRUCNAME:
001E4 COM_O_BSRDATE:
               BLKB
001EC ALT_SSNAME:
0020C INPUT_FUNC:
0020D INPUT_RTYPE:
               .BLKB
0020E OUTPUT_FUNC:
0020F FAST_STRUCLEY:
               .BLKB
00210 INPUT_BEGE
00210 INPUT_CHAN:
00214 INPUT_FLAGS:
00216 INPUT_PADDING:
               BLKB
00218 INPUT_FAB:
0021C INPUT_NAM:
00220 INPUT_BCB:
               .BLKB
00224 INPUT_QUAL:
00228 INPUT_BAD:
0022C INPUT_BLOCK:
00230 INPUT_MAXBLOCK:
00234 INPUT_MEDIA_ID:
00238 INPUT_NAMEDESC:
00240 INPUT_STATBLK:
              .BLKB
00248 INPUT_HDR_BEG:
00248 INPUT_CREDATE:
```

.

.......................

```
00250 INPUT_REVDATE:
                      8
00258 INPUT_EXPDATE:
               BLKB
00260 INPUT_BAKDATE:
               BLKB
00268 INPUT_FILEOWNER:
               BLKB
0026C INPUT_FILECHAR:
               BLKB
00270 INPUT_RECATTR:
                      32
               BLKB
00290 INPUT_HDR_END:
               BLKB
                      0
00290 INPUT_END:
               BLKB
00290 INPUT_PROC_LIST:
               BEKB
00294 INPUT_PLACEMENT:
               .BLKB
0029C INPUT_VBN_LIST:
                      8
               BLKB
002A4 INPUT_PLACE_LEN:
               BLRB
                      2
002A6 INPUT_PADDING_2:
                      2
               BLKB
002A8 OUTPUT_BEG:
                      0
               BLKB
002A8 OUTPUT_CHAN:
               BLKB
002AC OUTPUT_FLAGS:
002AE OUTPUT_PADDING:
               .BLKB
00280 OUTPUT_FAB:
               BLKB
00284 OUTPUT_NAM:
               BLKB
002B8 OUTPUT_BCB:
               BLKB
002BC OUTPUT_QUAL:
               BLKB
002CO OUTPUT_BAD:
002C4 OUTPUT_BLOCK:
002C8 OUTPUT_MAXBLOCK:
002CC OUTPUT_DEVGEOM:
                      8
002D4 OUTPUT_ATTBUF:
                      144
00364 OUTPUT_END:
                      0
00364 LIST_TOTFILES:
              .BLKB
```

```
00368 LIST_TOTSIZE:
               .BLKB
0036C VERIFY_FAB:
00370 VERIFY_USE_COUNT:
              .BEKB
00374 VERIFY QUAL:
               .BLKB
00378 COMPARE_BCB:
0037C FAST_BUFFER:
00380 FAST_BUFFER_SIZE
              .BLRB
00384 FAST_RVN:
00385 FAST_PADDING:
              .BLKB
00386 DIR_VERLIMIT:
              .BLKB
00388 FAST_VOL_BEG:
              BLKB
00388 FAST_IMAP_SIZE:
               .BLKB
0038C FAST_IMAP:
00390 FAST_HDR_OFFSET:
00394 FAST_BOOT_LBN:
              .BLKB
00398 FAST_VOL_END:
               BLKB
00398 JOUR_BUFFER:
              .BLKB
0039C JOUR_DIR:
              .BLKB
003A0 JOUR_HIBLK:
              .BLKB
003A4 JOUR_EFBLK:
              .BLKB
003A8 JOUR_INBLK:
003AC JOUR_FFBYTE:
003AE JOUR_INBYTE:
              .BLKB
003B0 JOUR_STRUCT_LEVE
              .BLKB
003B2 JOUR_COUNT:
003B3 JOUR_REVERSE:
               BLKB
003B4 JOUR_EXSZ:
003B6 JOUR_PADDING:
003B8 CHKPT_HIGH_SP:
```

```
003BC CHKPT_LOW SP:
003CO CHKPT_STACK:
003C4 CHKPT_VARS:
                .BLKB
003C8 CHKPT_STATUS:
                .BLKB
003CC DIR_BEG: BLKB
                        0
003CC DIR_CHAN:
003DO DIR_NAM: BLKB
GOSDA DIR DEV DESC:
                .BLKB
003DB DIR_SEL_DIR:
                        8
                .BLKB
003E0 DIR_SEL_NTV:
                        8
                .BLKB
003E8 DIR_STRUCLEV:
                .BLKB
003E9 DIR_LEVELS:
                .BLKB
003EA DIR_FLAGS:
                .BLKB
003EB DIR_STATUS:
                        1
                .BLKB
003EC DIR_STRING:
                        320
                .BLKB
0052C DIR_STACK:
                        612
                .BLKB
00790 DIR_SP: .BLKB
00794 DIR_SEL_LATEST:
00798 DIR END: BLKB
00.98 DIR SCANLIMIT:
                        Ò
                        36
                .BLKB
007BC INPUT_MTL:
                .BLKB
007CO OUTPUT_MTL:
                .BLKB
007C4 CURRENT_MTL:
                .BLKB
007C8 CURRENT_VCB:
                .BLKB
007CC CURRENT_WCB:
007DO ACL_FIB_DESCR:
00708 ACL_FIB: BLKB
00818 ACL_LENGTH:
                .BLKB
0081C ACL_BUFFER:
                .BLKB
00820 CRYP_IN_CONTEXT:
                .BLKB
00824 CRYP_OU_CONTEXT:
```

BRB

CREATEDIR V04-000	Create (CREATE_	direc	tory create a	dir	ectory file			1	2 5-Sep-1 4-Sep-1	984 23:52 984 11:53	2:12 3:50	/AX-11 Bliss-32 V4.0-742 [BACKUP.SRC]CREATEDIR.B32;1	Page 22 (3)
		2 A	86	57 AD	4080	5A 03 8F 03	88 DD) 0009F	2 \$: 3 \$:	MOVL BBC PUSHR PUSHL	#^M <r7, #3</r7, 		: 1380 : 1384 : 1390
			0000000G	00 12	04 03	5086330E7330	FB E9 9F 9F DD	000AE		CALLS BLBC PUSHAB PUSHAB PUSHL	RO, 4\$ MEMBER	S\$CVT_OTB DIR_ADDRESS)	1396
			0000000G	00 08 50	000000006	03 50 8F	F B B D O 4	000B3 000BA 000BD		CALLS BLBS MOVL RET	#3, LIE RO, 5\$	S\$CVT_OTB INVFILSPE, RO	1398
0040 8F		00	0250 0264 0254 0248 024C FE1C	GE CE	00040004 40 0250 FE20	00 CEF F F E CD S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S C C C S C	30 B0 D0 94 95 D4	000C5 000CF 000CF 000DD 000DD 000E6 000EC	5\$:	MOVC5 MOVZWL MOVW MOVL MOVZBL MOVAB MOVAB CLRL	#1281, #1024, #262148 #64, F1	FIB+20 B, FIB+4 IB_DESC IB_DESC+4 JFFER, NAME_DESC+4	1406 1407 1408 1409 1416 1417 1423 1436
		6A 52	025A 025C	597 CE 556 56 55A 56	0254 14 0256 01	CE	D00 B00 D00 343 9E	0 00105 0 0010A 0 00111 0 00114 5 00118 00110	6\$:	MOVZWL MOVW MOVL MOVL LOCC SUBL3 MOVAB MOVAB	R9, FIE	0, R/ 3+10	1445 1503 1445 1446 1462 1463 1465 1467
	FE18 FE20	CD CD 63	FEC6	52 63 CF	FE18 025C 0228 00000000°	06267EDCEEE2F	9F 7C 9F DD	3 00129 3 0012F 5 00137 5 00139 5 00130 5 00141 6 00147		CLRQ CLRQ PUSHAB PUSHAB CLRQ PUSHAB PUSHL PUSHL	-(SP) -(SP) NAME DES -(SP) 10SB #50 OUTPUT	SC SC	1474 1475 1488
			0000000G	00 58 05 58 59 8f	0208 0254	7E 000 5E 000 000 000 000 000 000 000 000	D4 FE D0	0014F 00151 00158 0015B 0015E 00163	75 :	CLRL CALLS MOVL BLBC MOVZWL MOVZWL CMPW	/cn\	YS\$QIOW NAL_STATUS STATUS, 7\$ FINAL_STATUS R9 5535	1489 1490
			FFFF FFFF FF	8f 8f		16 CE OD CE	12 B1 12 91	2 0016D 1 0016F 2 00176		BNEQ CMPW BNEQ CMPB	8\$ FIB+6, 8\$ FIB+9,	#6))))	1491 1492
			00000910	58 8f		05 8F 58 28	12 30 01	0017E 00180 00185 00180	8\$:	BNEQ MOVZWL CMPL BEQL	8 \$ #2320.	FINAL_STATUS STATUS, #2320	1493 1494

– אנט	create a	aire	ectory fil	Le		14	•-2eb-12	784 11:55	: 50	LBACKUP.SRCJCREATEDIR.B32;T	(3)
		03		58	Ę8	0018E		BLBS	FINAL	_STATUS, 9\$; 1496
51		51 5A	FE18	0299 CD 51	31 23	0018E 00191 00194 00199	9\$:	BRW MOVZWL SUBL3 MOVAB	28\$ NAME R1, D	DESC, R1 IR ADDRESS, R1 PREV ADDRESS 0, (R7)	1502
	04	5B 67 A7	05 025A 025E	A1 CE 56 03	96 00 80 05	0019D 001A1 001A6 001AC		MOVL MOVW TSTL BLEQ	DIR_L 10\$	PREV_ADDRESS 0, (R7) 4, 4(R7) ENGTH	1503 1505 1517
	0210 0214 0218 0210 0220 0228 02230 0234 0238 0238	SEEEEEEEEEEEEEEEEE	00040020 FDF8 00030004 FDF4 00160002 FDF0 00140008 FDE4 00150004 FDEC 000A0200 0290	FF 52 8F CBF CBF CBF CBF CBF CBF CBF CBF CBF CB	3000E0E0E0E0E0	001B0 001B3 001B6 001C6 001C6 001D6 001DF 001E6	10\$: 11\$:	BRW MOVL MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB	#1.621 #2621 #1966 UCHAR #1441 FPRO #137 UIC58	INAL STATUS 76, ATR TR, ATR+4 12, ATR+8 , ATR+12 794, ATR+16 ATR+20 728, ATR+24 ATR+28 260, ATR+32 ATR+36 72, ATR+40 R, ATR+44	1520 1537 1538 1540 1541 1543 1544 1546 1547 1549 1550
	0254 0258	OE CE CE	0240 025A 025E 025A 025E 0214	CEESEE CEE TEE TEE TEE	D8004444FC4FC	00216 0021A 0021D 0022B 0022F 00233 00235 0023B 0023D 00241	12 \$: 13 \$:	CLRL BLBS MOVW CLRL CLRW CLRL PUSHAB CLRL PUSHAB CLRQ	ATR+4 FINAL FIB+1 FIB+1 FIB+1 -(SP) ATR -(SP) FIB D -(SP)	8 STATUS, 12\$ 0, FIB+4 4, FIB+8 0	1554 1561 1564 1566 1568 1570 1586
			00000000	CĒ 32	DD	00243 00247 00249		PUSHAB PUSHL PUSHL	IOSB #50 OUTPU	T_CHAN	
	00000000G 00000910	00 59 08 59 58 8F	0208	F 7E 050 559 559 03	59 E8 D0 13	00249 0024F 00251 00258 0025B 0025E 00266 00266 00270		CLRL CALLS MOVL BLBC MOVZWL BLBS MOVL CMPL BEQL	#12, R0, S STATU IOSB, STATU STATU STATU 16\$	SYS\$QIOW TATUS_3 S_3, T4\$ STATUS_3 S_3, 17\$ S_3, FINAL_STATUS S_3, #2320	1587 1588 1597 1594
50 56	0254 0258	CE CE 56 50 5A	04	01B8 58 F9 67 A7 5B 5A 5B	315300 1003100 10000	00272 00275 00277 00279 0027E 00284 00288 0028C	15\$: 16\$:	BRW TSTL BEQL MOVU SUBL3 ADDL3 MOVL CLRL MOVL	28\$ PREV_ 15\$ (R7) 4(R7) PREV_ PREV_ PREV_	ADDRESS FIB+4 FIB+8 ADDRESS, DIR LENGTH, RO DDRESS, RO, DIR LENGTH ADDRESS, DIR_ADDRESS ADDRESS DDRESS, NAME_ADDRESS	1598 1600 1601 1602 1603 1617

CREATEDIR V04-000	Create (CREATE_!	direct DIR -	tory create a	dire	ectory file	•		1 5 1 4	2 -Sep-1 -Sep-1	984 23:52 984 11:53	:12	VAX-11 Bliss-32 V4.0-742 [BACKUP.SRC]CREATEDIR.B32;1	Page 24 (3)
	FE18 FE20	6A 52 CD CD 63	FD46	56 56 56 52 63 CF B7	01 0238 FDE8	2E0 501 7062 678 565 568 568 568 568 568 568 568 568	9E 9E 28 28 28 1	3 002A9	17\$:	LOCC SUBL3 MOVAB MOVAB ADDW3 MOVC3 MOVC3 BRW BLBS CLRL	13 \$		1618 1619 1620 1622 1629 1630
		08 (19 (FDE4 FDE8 O25A O25E O264	CD CE CE	0297 00000000° 00000000° 0254 0258 00850400 0297	CC004E2FFEEFE	040 E912 000 B00 B00	002C3 002C7 002CF	18 \$:	CLRL CLRS BBC MPB BNEQ MOVL MOVL MOVL CMPB	BAK,,AD 198 100M FIB+ FIB7 HEAD	QUAL+12, 18\$ QUAL+10, 19\$ DER+7, #2 O_BSRDATE, BAK O_BSRDATE+4, BAK+4 47, FIB+10 8, FIB+14 7312, FIB+20 DER+7, #2	1656 1657 1658 1661 1662 1669 1671 1681
	FEOO	50 CD	O268 O268 FDEC FDFO FFFF FDFO FE16	CE CE 50 CD CD 8F CD CD	08 8888 0C 0C 10 0214 FE18 025C 0228 F3	0010C6CFC6CC7CEEFFE	DC10530813004FCFFCFA	0030E 00313 00319 00319 00324 003324 003337 003347 003349 00345 00357	21 \$:	BNEQ MOVL3 ROTL TSTL BEVL2 BEVW BEVW CLRLAB CLRQAB PUSHAB CLRQAB PUSHAB CLRQAB PUSHAB CLRQAB PUSHAB CLRQAB PUSHAB CLRQAB PUSHAB CLRQAB PUSHAB CLRQAB PUSHAB	W116NE NE N	FIB+24 FIB+24, R0 RO, RÉCATTR+8 R_UIC R_UIC, UIC 52, FPRO _VALUE, #65535 VALUE, FPRO VERSIONS, RECATTR+30 DESC DESC DESC DESC - (SP)	1690 1696 1698 1704 1705 1707 1713 1732
O1FE 8F		00	000000006	00 58 76 58 7A 02 AE 6E 7E	0208 0297 0A 0200	0C0558 C58 C58 C58 C58 C57 C100 AEE O18 F	D0 E9 30 E9 91 12 AE	0 0036E 0 00371 0 00374 0 00379 1 0037C 2 00381 5 00383		CALLS MOVL BLBC MOVZWL BLBC CMPB BNEQ MNEGW MOVC5 CLRQ MOVZWL	#1, #0,	SYSSQIOW FINAL_STATUS L_STATUS, 25\$, FINAL_STATUS L_STATUS, 26\$ ER+7, #2 BLOCK_BUFFER (SP), #0, #510, BLOCK_BUFFER+2) -(SP) , -(SP)	1733 1734 1741 1747 1748 1755

CREATEDIR V04-000	
,	

Create directory CREATE_DIR - create a direc	tory file	H 2 15-Sep-1984 23:52: 14-Sep-1984 11:53:	12 VAX-11 Bliss-32 V4.0-742 50 [BACKUP.SRC]CREATEDIR.B32:1	Page 25 (3)
	7E 7 0228	7C 0039D CLRQ 9F 0039F PUSHAB DD 003A3 PUSHL DD 003A5 PUSHL	BLOCK_BUFFER -(SP) IOSB #48 OUTPUT_CHAN -(SP)	
00000000G 00 58 73 58 6B	0C F 50 C 58 E 7E 7 7E 7	FB 003AD CALLS D0 003B4 MOVL E9 003B7 BLBC 3C 003BA MOVZWL E9 003BF BLBC 7C 003C2 24\$: CLRQ 7C 003C6 CLRQ	#12, SYSSGIOW RO, FINAL STATUS FINAL STATUS, 28\$ IOSB, FINAL STATUS FINAL STATUS, 28\$ -(SP) -(SP) -(SP)	1756 1757 1767
	7E 7 0228 CE 9 34 C	7C 003C8 CLRQ 9F 003CA PUSHAB DD 003CE PUSHL DD 003D0 PUSHL	-(SP) 10SB #52 OUTPUT_CHAN -(SP)	
00000000G 00 58 48 58 40	0208 CE 3 58 E 56 C	FB 003D8	#12, SYSSGIOW RO, FINAL_STATUS FINAL_STATUS, 28\$ IOSB, FINAL_STATUS FINAL_STATUS, 28\$ DIR_LENGTH	1768 1769 1775
58 53 6A 56 52 56 5A	0619 8F 35 1	14 003EF BGTR 3C 003F1 MOVZWL 11 003F6 268+ RPR	27\$" #1561, F1.HAL_STATUS 28\$ DIR_ADDRESS, NAME_ADDRESS #46, DIR_LENGTH, (DIR_ADDRESS) R0, DIR_LENGTH, NAME_LENGTH 1(R1), DIR_ADDRESS -(R0), DIR_LENGTH	1778 1779 1794 1795 1796
FE18 CD 56 FE20 CD 63 63 FBDF CF 025A CE 025E CE	70 9 06 7 52 6 06 2 0254 CE C	28 00410 MOVC3 28 00416 MOVC3 DO 0041C MOVL BO 00423 MOVW	NAME_LENGTH, (NAME_ADDRESS), NAME_BUFFER #6, DIR_TYP_VER, (R3) FIB+4, FIB+TO FIB+8, FIB+14	: 1799 : 1806
04 A7 50 60 04 A0 50	0254 CE C 0258 CE E 18 AC C FDE4 CD C FDE8 CD C	31 0042A BRW D0 0042D 28\$: MOVL B0 00432 MOVW D0 00438 MOVL D0 00441 MOVL D0 00447 MOVL 04 0044A RET	23\$ FIB+4, (R7) FIB+8, 4(R7) BAKDATE, R0 BAK, (R0) BAK+4, 4(R0) FINAL_STATUS, R0	1831 1833 1834 1835 1836 1837

; Routine Size: 1099 bytes, Routine Base: CODE + 0006

PSECT SUMMARY

Name Bytes Attributes

COMMON 2124 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, OVR,NOPIC,ALIGN(2) CODE 1105 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File Total Loaded Percent Mapped Time

\$255\$DUA28:[SYSLIB]LIB.L32:1 18619 116 0 1000 00:02.1

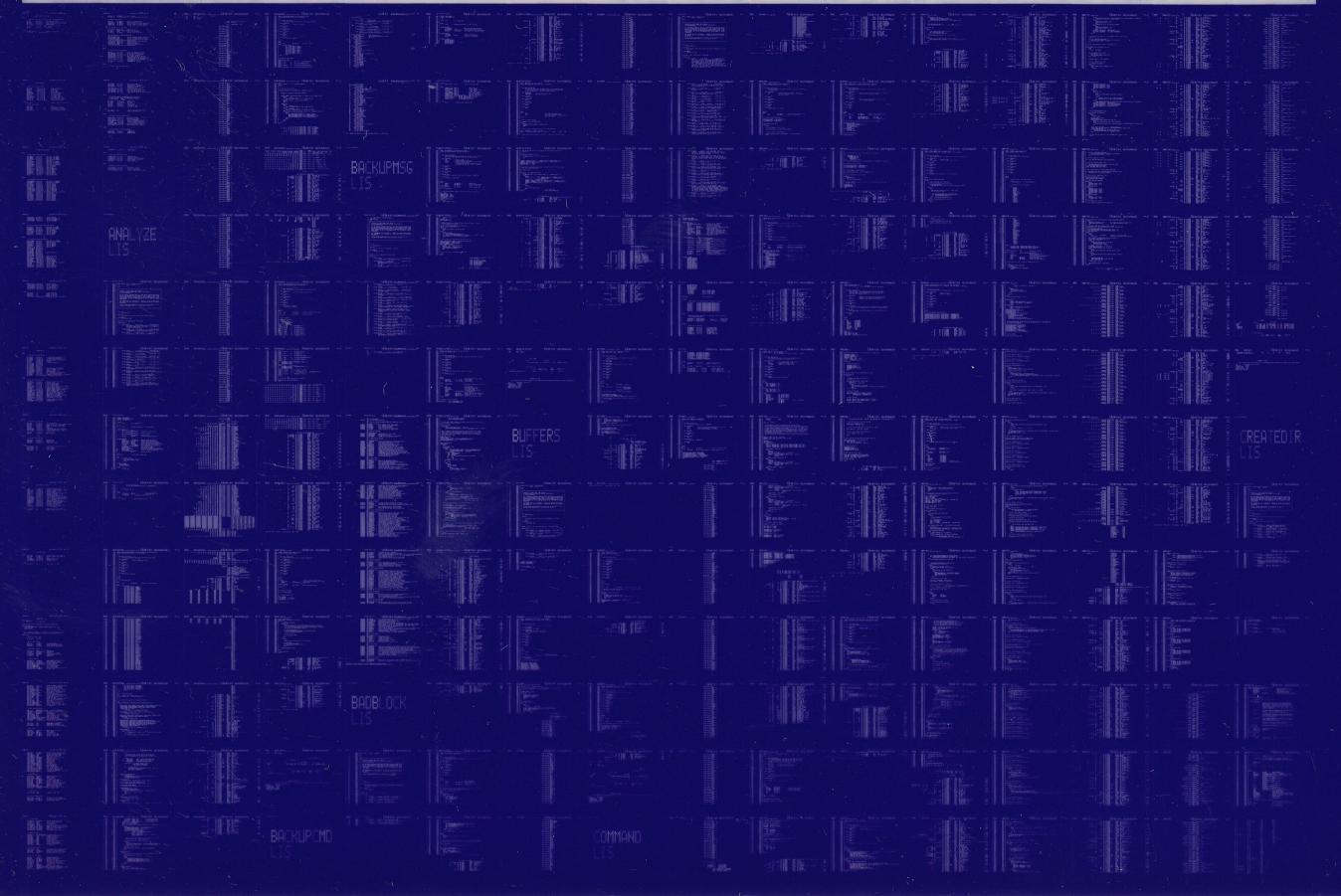
COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: CREATEDIR/OBJ=OBJ\$: CREATEDIR MSRC\$: CREATEDIR/UPDATE=(ENH\$: CREATEDIR)

Size: 1099 code + 2130 data bytes

Run Time: 00:34.1 Elapsed Time: 01:45.6 Lines/CPU Min: 3234 Lexemes/CPU-Min: 38035 Memory Used: 496 pages Compilation Complete 0010 AH-BT13A-SE

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0011 AH-BT13A-SE VAX/VMS V4.0 DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

